

X12C SAFETY CHECKLIST			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
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Original signatures on file.

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- ☐ 1. Valid Padlock Index and log, no padlocks open.

UPSTREAM OF X12A HUTCH

- ☐ 2. Bremsstrahlung shield (BS #1) in place and banded.
- ☐ 3. Exclusion Zone (EZ #1) at the slit tank is in place as per photo.
- ☐ 4. Bremsstrahlung shield (BS # 2) in place and banded.
- ☐ 5. Vacuum Bellows #2 (downstream of the slit tank) is wrapped in lead.
- ☐ 6. Water cooled Beryllium window #2 wrapped in lead.
- ☐ 7. Two monochromator viewports have leaded glass secured.
- ☐ 8. Vacuum Bellows #3 downstream of the monochromator is wrapped in lead.
- ☐ 9. Exclusion Zone (EZ #2) (aluminum screen) upstream of the mirror tank is in place and secured.
- ☐ 10. Scintillation counter is in place, and view ports are covered with lead as per photo.
- ☐ 11. Exclusion Zone (EZ #3) (aluminum screen) is in place and secured; bellows #4 is wrapped in lead and secured beneath.
- ☐ 12. Bremsstrahlung shield (BS # 3) and Photon shutter lead in place and banded.

INSIDE X12A HUTCH

- ☐ 13. Exclusion Zone (EZ #4) foam padding, from upstream wall to lead shielded bellows, in place.

DOWNSTREAM OF X12A HUTCH

- ☐ 14. Exclusion Zone (EZ # 5) (aluminum screen) is in place and secure.
- ☐ 15. Bremsstrahlung shield (BS # 4) in place and banded.

DOWNSTREAM OF X12C HUTCH

- ☐ 16. Bremsstrahlung shield (BS # 5) (viewed between X12B and C hatches) is in place and banded.

USER SYSTEM CHECKS

AT THE X12C USER STATION ELECTRONICS RACK

- ☐ A. Pressure at P1 is less than 4.0×10^{-9} torr.
- ☐ B. Pressure at P2 thru P5 is less than 9.9×10^{-8} torr.
- ☐ C. Valves V1, V2, and V3 indicate a green (open) status.
- ☐ D. Water flow for Proteus #1-6 indicates a green (ok) status.

Checked by: _____ Date: _____

OPCO: _____ Date: _____